

## ABSTRACT

A method for performing channel configuration of a base station in a cellular radio network, and a network element of the cellular radio network employing the method. In the method, the base station is directed by a controller  
5 controlling the base station to transmit a logical control channel on at least one physical channel allowed for the cellular radio network, a fixed receiver box is directed to receive the physical channel transmitted by the base station and to measure at least one channel parameter representing the properties of said  
10 physical channel, a measurement report on measurements made by the receiver box is transmitted to the controller, the controller selects on the basis of at least one measurement report at least one physical channel enabling good range, the base station is directed to use at least one physical channel enabling good range.